8B-10

# **Tabulating Guardrail**

**Design Manual Chapter 8** Safety Design

Originally Issued: 02-26-99

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Tabulating guardrail can be confusing because the tabulations are set up to handle many different Because of this, some columns are used for some situations but not used in other Tabulating guardrail consistently makes it easier for contractors and inspectors to situations. understand the designer's intent and helps ensure that the guardrail is installed correctly.

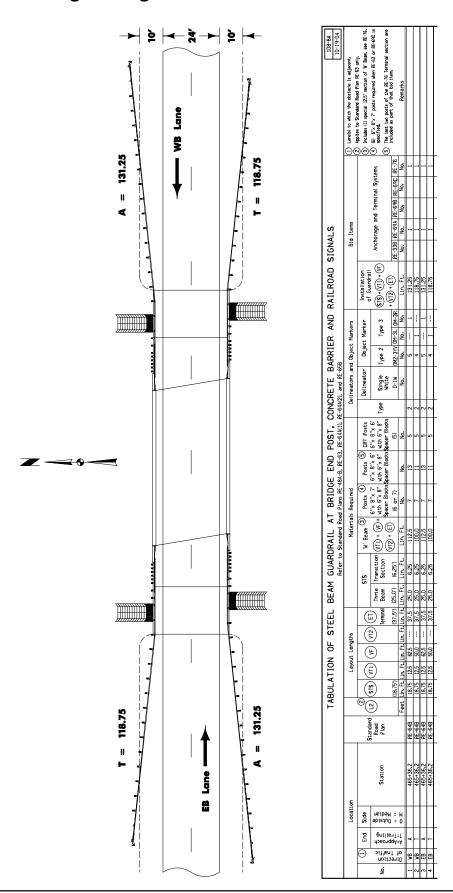
The examples on the following pages illustrate how to tabulate guardrail for some common situations.

- Example 1: single bridge with narrow shoulders (RE-64B).
- Example 2: dual bridges with w-beam guardrail installation (RE-65A).
- Example 3: side obstacle shielded with concrete barrier (RE-65B).
- Example 4: railroad signals (RE-63)
- Example 5: side obstacle shielded with w-beam guardrail (RE-54 or RE-55).
- Example 6: w-beam guardrail over a low-fill culvert (RE-66C). This installation is a bit more complicated because posts are skipped and guardrail is nested above the culvert.
- Example 7: median obstacle shielded with the RE-56 wire rope safety barrier design.

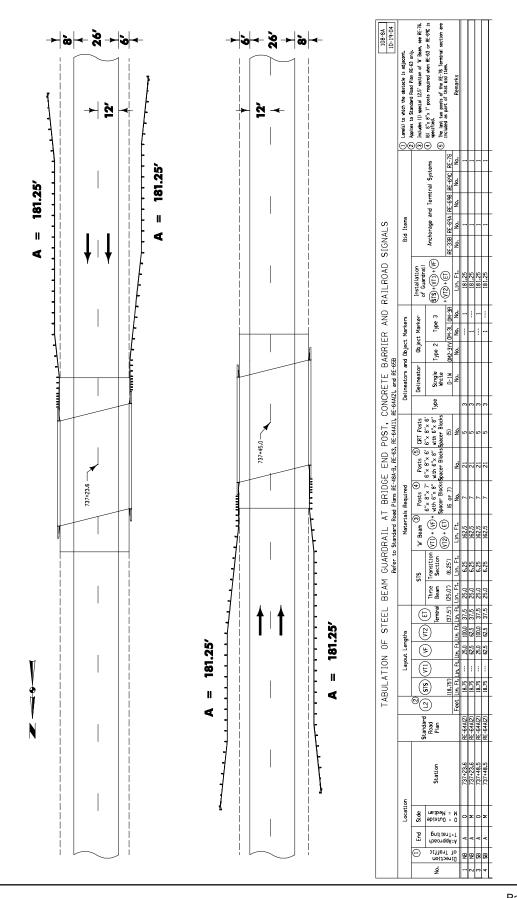
These examples are all presented in English units. Metric versions of these same examples are available by contacting the Methods Section in the Office of Design.

The column labeled *Direction of Traffic* in the tabulations simply indicates on which side of the highway the installation is located. The column labeled Side is used only with multi-lane divided highways to further clarify where the installation is located. Either "median" or "outside" is entered in this column.

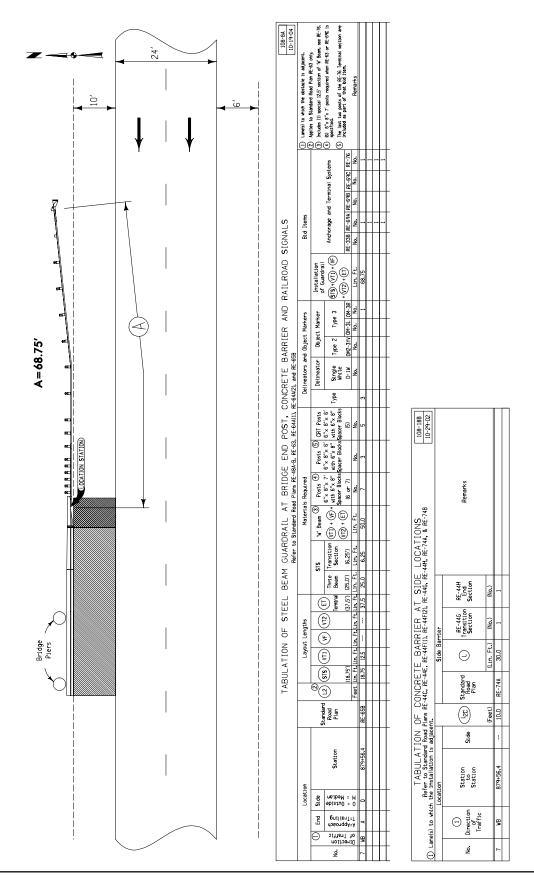
# **Example 1—Single Bridge with Narrow Shoulders**



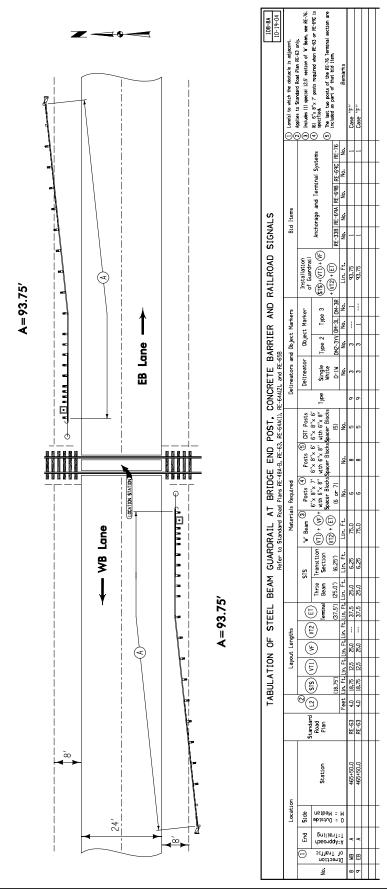
## Example 2—Dual Bridges with W-Beam Guardrail



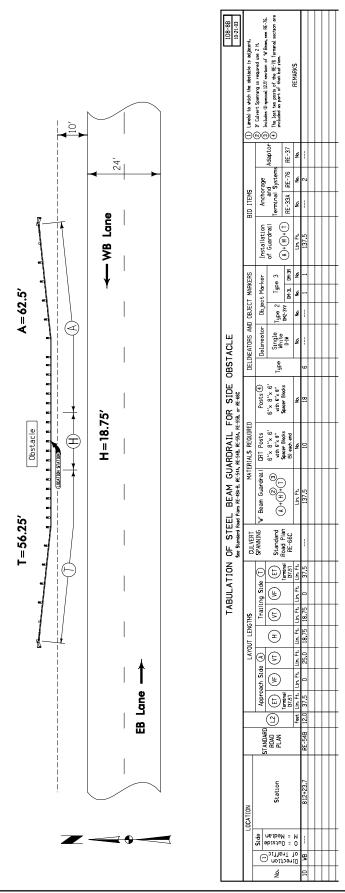
#### **Example 3—Side Obstacle Shielded with Concrete Barrier**



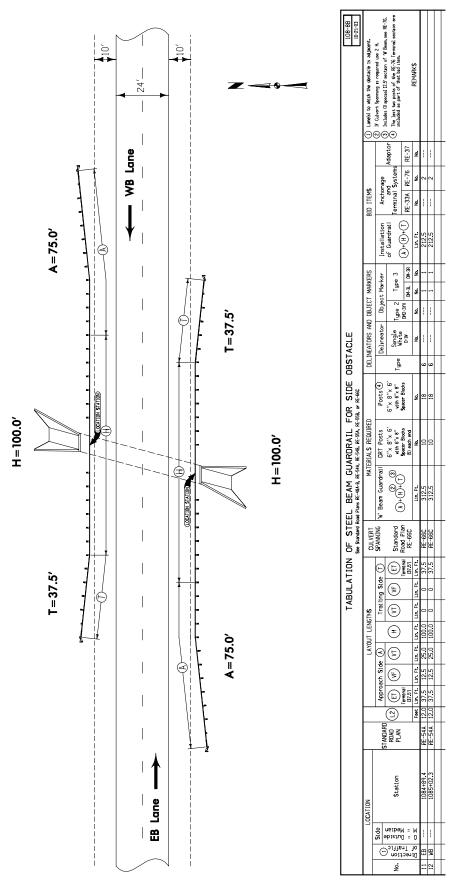
#### **Example 4—Existing Railroad Signals**



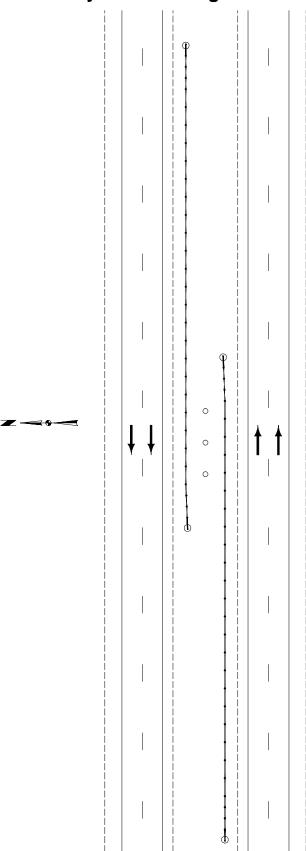
#### Example 5—Side Obstacle Shielded with W-Beam Guardrail



## Example 6—W-Beam Guardrail over a Low-Fill Culvert



# Example 7—Median Obstacle Shielded with RE-56 Wire Rope Safety Barrier Design



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108-9A 10-19-04		Remarks				
WIRE ROPE SAFETY BARRIER Refer to Standard Road Plan RE-56	Bid Item	L (Lin. Ft.)	282.00	282.00		
	Location	Direction of Traffic	8#	83		
		Station to Station	221+56.14 to 224+38.14	223+27.89 to 226+09.89		
		No.	-	2		